
Cascading Style Sheets

CSS

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Motivation

- Let us say that you have created a page that contains multiple paragraphs of text, and multiple headings of different sizes
- Now, let us say that you would like to change the color of all of the `h1` text to blue
- How would you do this?

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Cascading Style Sheets

- A way to separate the appearance of web pages from the content of the page
- W3C recommends that:
 - HTML should not contain information about how data is displayed
- What tags and attributes do we use in HTML that describe how the data is displayed?

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Three Types of CSS

1. Inline
 - o A style appearing within an HTML tag, for example `<p style="color:red">Text</p>`
2. In an embedded style sheet
 - o A `<style></style>` element embedded in the `<head>` element of the document, where styles for elements and or classes are specified
3. In an external style sheet
 - o A file with a `.css` extension (e.g. `myStyles.css`) that is linked to with a `<link>` element embedded in the `<head>` element of the document, for example: `<link rel="stylesheet" type="text/css" href="cssPage.css" />`

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Inline CSS

- Example
 - o `<p style="font-size: 24px; color: red">This is some 10 pixel red text</p>`
 - Tag
 - Attribute
 - Property
- **Attribute=value**
- **Property:value**

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What will this Display?

- `<p style="font-size: 24px; color: red">This is some 24 pixel red text</p>`

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Embedded Style Sheet

- Part of the HTML document, in `<head>`
`</head>`
- Good for changing the style of a single page
- Style is placed within `<style></style>` tags
- Within the style tags are multiple styles

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Example

```
<style type="text/css">
h1{
font-family: Verdana, Arial, Century;
font-size: 1.5em;
text-align: center;
color: #006;
background-color: #FC9;
}
.menuItem{
font-family: Verdana, Arial, Century;
font-size: 0.8em;
color: #006;
}
</style>
```

All h1 will have these properties

Size relative to parent element

menuItem is a new style that can be used with any text

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Span and Div

- The span tag is used to set the style of a small fragment of text, for example, a sample of text in a paragraph
 - `<p>On the menu is: cheesburger</p>`
- The div tag is used to set the style of a large chunk of text

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Example

- What will this output using the styles on the previous page?

```
<h1>The Little Menu Restaurant</h1>
<p>
<span class="menuItem">Chicken Tenders</span>
</p>
```

Problem

- Open the menu_with_style.html file that is located in the CS120 folder on Euler in TextWrangler
- How many style items are there?
- Describe them here (you may need more lines):
 - -----
 - -----
 - -----
 - -----
 - -----

Problem

- How is each of the styles used within the text? List each style, and how many times it is used.

Problem

- View the file in a web browser
- Replace all the blue text with #990000
- Make the menu appear in the center of the screen
- Add a main course section containing
 - Regular Cheeseburger \$6.25
 - Your choice of cheese with lettuce and beef on a bun

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Your Page Should Look Like:

The Little Menu Restaurant

Starters

Chicken Tenders **\$5.49**
Served with honey mustard

Buffalo Shrimp **\$6.49**
Lightly battered fried shrimp tossed in your choice of wing sauce.
Served with celery & bleu cheese dressing

Salads

Garden Salad **\$4.49**
A bed of greens, fresh onions, green peppers, mushrooms,
carrots & tomatoes topped with mozzarella & cheddar cheese

Chicken Caesar Salad **\$5.99**
Our fresh garden or Caesar salad topped with tender chicken

Regular Cheesburger **\$6.25**
Your choice of cheese with lettuce on a bun

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Problem, Continued

- Open the `menu_with_style.html` file that you just modified in Dreamweaver
- In the design view, add another main course item (make one up)

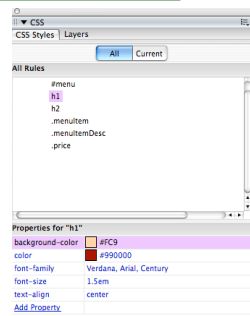
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Problem, Continued

- Using the design toolbox, modify **h1**, so that it is underlined
 - How was the code modified to support this?



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